

RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9100
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

DEC 17 2019

State of New Mexico
Energy, Minerals & Natural Resources Department
CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

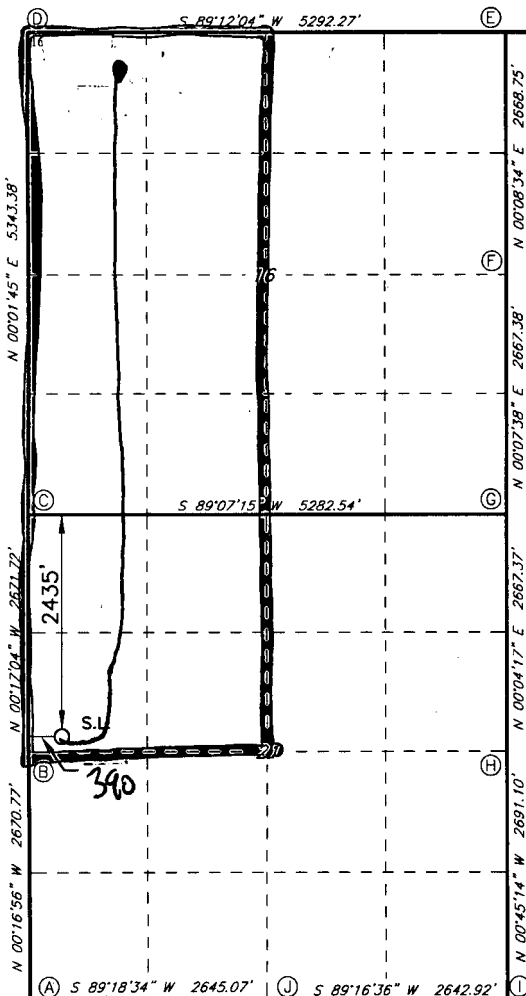
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
as drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44871		² Pool Code 98220		³ Pool Name Purple Sage; Wolfcamp (gas)	
⁴ Property Code 321183		⁵ Property Name CREEDENCE 21/16 WOED STATE COM			⁶ Well Number 2H
⁷ GRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3037'
¹⁰ Surface Location					
UL or lot no. E	Section 21	Township 24S	Range 28E	Lot Idn 2635	Feet from the NORTH 390
Feet From the East/West line WEST EDDY					
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. D	Section 16	Township 24S	Range 28E	Lot Idn 339	Feet from the NORTH 498
Feet From the East/West line WEST EDDY					
¹² Dedicated Acres		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



GEODETTIC DATA
NAD 83 GRID - NM EAST
SURFACE LOCATION
N: 437984.9 - E: 613494.2
LAT: 32.2038823° N
LONG: 104.1000435° W
BOTTOM HOLE
N: 445431.6 - E: 613524.6
LAT: 32.2243524° N
LONG: 104.0998928° W

CORNER DATA
NAD 83 GRID - NM EAST
A: FOUND BRASS CAP "1942"
N 435072.6 - E 613148.6
B: FOUND BRASS CAP "1942"
N 437742.8 - E 613135.4
C: CALCULATED CORNER
N 440413.8 - E 613122.2
D: FOUND 100D NAIL
N: 445756.0 - E: 613124.9
E: CALCULATED CORNER
N: 445829.8 - E: 618415.5
F: FOUND BRASS CAP "1942"
N: 443161.6 - E: 618408.8
G: CALCULATED CORNER
N: 440494.9 - E: 618402.9
H: FOUND BRASS CAP "1942"
N: 437828.1 - E: 618399.6
I: FOUND BRASS CAP "1942"
N 435137.9 - E 618435.0
J: FOUND BRASS CAP "1942"
N 435104.5 - E 615792.9

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Ruby Caballero Date: 12/10/19
Printed Name: Ruby Caballero
E-mail Address: rcaballero@mewbourne.com

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

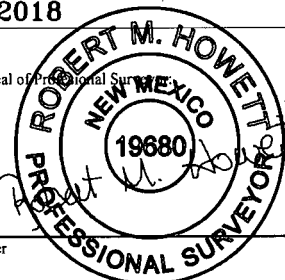
4-05-2018

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number

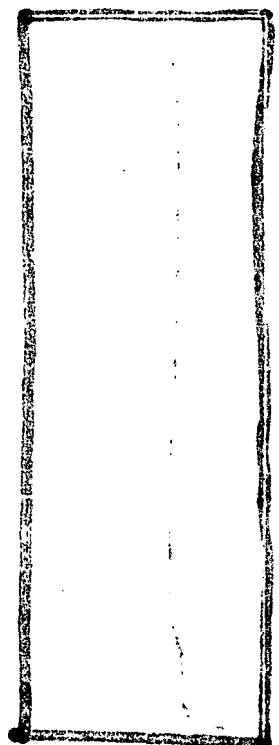


RRC - Job No.: LS1804440

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Handwritten text on the left side, possibly a name or title.

Main body of handwritten text, appearing to be a list or series of entries.



Handwritten text at the bottom left, possibly a signature or a note.

RECEIVED

DEC 17 2019

Intent ☐ As Drilled ☒

API #

30-015-44871

DISTRICT//ARTESIA O.C.D.

Operator Name:
Mewbourne Oil CompanyProperty Name:
Creedence 21/16 W0ED ST ComWell Number
#2h

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
E	21	24S	28E		2590	N	916	W	Eddy
Latitude					Longitude				NAD
32.2034733					-104.0982444				83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
E	21	24S	28E		2740	N	940	W	Eddy
Latitude					Longitude				NAD
32.2044192					-104.0981681				83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	16	24S	28E		333	N	993	W	Eddy
Latitude					Longitude				NAD
32.2243492					-104.0979617				83

Is this well the defining well for the Horizontal Spacing Unit?

No

Is this well an infill well?

yes

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

44987

Operator Name:

Mewbourne Oil Co

Property Name:

Creedence 21/16 W1 ED St Com

Well Number

1 H

KZ 06/29/2018

DIRECTIONAL

September 7, 2019

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

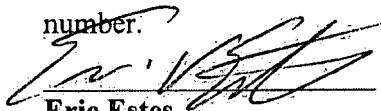
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Creedence 21 16 W0ED State Com #2H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
API# 30-015-44871

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Glen Thompson	Original Hole	498ft. to 16,832ft.	06-27-19 to 07-17-19	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Eric Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil\Creedence 21 16 W0ED State Com #2HM191080

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



September 7, 2019

Survey Certification Report

STATE OF TEXAS
COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of June 27, 2019, through July 17, 2019 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 498feet to a depth of 16,832feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Creedence 21 16 W0ED State Com #2H, well API # 30-015-44871 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



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DISTRICT//ARTESIAO.C.D.

Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 21-28-24S-28E Kansas

Creedence 21 16 W0ED St Com #2H

Original Hole

Design: Original Hole

Standard Survey Report

18 July, 2019





Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Creedence 21 16 W0ED St Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Site:	Section 21-28-24S-28E Kansas	MD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Well:	Creedence 21 16 W0ED St Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Project	Eddy County, N.M. Nad (83)	
Map System:	US State Plane 1983	System Datum: Mean Sea Level
Geo Datum:	North American Datum 1983	
Map Zone:	New Mexico Eastern Zone	

Site	Section 21-28-24S-28E Kansas	
Site Position:	Northing: 437,785.10 usft	Latitude: 32° 12' 11.999 N
From: Map	Easting: 613,495.10 usft	Longitude: 104° 6' 0.151 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.12 °

Well	Creedence 21 16 W0ED St Com #2H				
Well Position	+N/-S 0.0 usft	Northing: 437,785.40 usft	Latitude: 32° 12' 12.002 N		
	+E/-W 0.0 usft	Easting: 613,525.10 usft	Longitude: 104° 5' 59.802 W		
Position Uncertainty	0.0 usft	Wellhead Elevation: 28.0 usft	Ground Level: 3,037.0 usft		

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/20/19	7.02	59.94	47,700.00887253

Design	Original Hole				
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0			
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	4.46	

Survey Program	Date 07/18/19				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
498.0	16,880.0	Stryker Surveys (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
394.0	2.00	282.50	393.9	3.1	-8.9	2.4	0.00	0.00	0.00	
498.0	3.40	280.10	497.8	4.0	-13.7	3.0	1.35	1.35	-2.31	
681.0	1.70	314.60	680.6	6.9	-21.0	5.2	1.21	-0.93	18.85	
869.0	2.90	91.40	868.5	8.7	-18.2	7.3	2.29	0.64	72.77	
1,058.0	3.30	88.40	1,057.3	8.8	-8.0	8.1	0.23	0.21	-1.59	
1,247.0	3.60	92.30	1,245.9	8.7	3.4	8.9	0.20	0.16	2.06	
1,437.0	3.50	93.60	1,435.5	8.1	15.1	9.2	0.07	-0.05	0.68	
1,598.0	3.50	98.60	1,596.2	7.0	24.9	9.0	0.19	0.00	3.11	
1,788.0	4.50	103.10	1,785.8	4.5	37.9	7.4	0.55	0.53	2.37	
1,978.0	7.50	112.20	1,974.7	-1.9	56.6	2.5	1.65	1.58	4.79	



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Creedence 21 16 W0ED St Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Site:	Section 21-28-24S-28E Kansas	MD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Well:	Creedence 21 16 W0ED St Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,167.0	6.80	131.20	2,162.3	-13.9	76.5	-7.9	1.30	-0.37	10.05
2,357.0	4.90	161.90	2,351.3	-29.1	87.5	-22.2	1.89	-1.00	16.16
2,468.0	4.50	183.60	2,462.0	-37.9	88.7	-30.9	1.63	-0.36	19.55
2,519.0	4.60	190.60	2,512.8	-41.9	88.1	-34.9	1.11	0.20	13.73
2,643.0	2.20	115.60	2,636.6	-47.8	89.4	-40.7	3.67	-1.94	-60.48
2,831.0	5.40	71.20	2,824.2	-46.5	101.0	-38.5	2.19	1.70	-23.62
3,020.0	5.40	78.40	3,012.4	-41.9	118.1	-32.6	0.36	0.00	3.81
3,210.0	5.40	79.70	3,201.5	-38.5	135.7	-27.8	0.06	0.00	0.68
3,399.0	4.50	78.30	3,389.8	-35.4	151.7	-23.5	0.48	-0.48	-0.74
3,590.0	4.40	80.90	3,580.3	-32.7	166.3	-19.7	0.12	-0.05	1.36
3,779.0	4.70	81.00	3,768.7	-30.4	181.1	-16.2	0.16	0.16	0.05
3,968.0	4.10	84.80	3,957.1	-28.5	195.5	-13.2	0.35	-0.32	2.01
4,158.0	3.90	81.90	4,146.6	-27.0	208.6	-10.7	0.15	-0.11	-1.53
4,347.0	4.20	82.70	4,335.2	-25.2	221.9	-7.9	0.16	0.16	0.42
4,538.0	4.50	85.90	4,525.6	-23.8	236.3	-5.3	0.20	0.16	1.68
4,728.0	3.90	91.70	4,715.1	-23.5	250.2	-3.9	0.39	-0.32	3.05
4,917.0	4.70	68.90	4,903.6	-20.9	263.8	-0.3	0.99	0.42	-12.06
5,107.0	4.60	74.70	5,093.0	-16.1	278.4	5.7	0.25	-0.05	3.05
5,296.0	4.30	77.60	5,281.4	-12.5	292.7	10.3	0.20	-0.16	1.53
5,485.0	4.00	77.70	5,469.9	-9.6	306.0	14.2	0.16	-0.16	0.05
5,675.0	3.80	80.50	5,659.5	-7.2	318.7	17.7	0.15	-0.11	1.47
5,864.0	4.50	69.30	5,848.0	-3.5	331.8	22.3	0.56	0.37	-5.93
6,053.0	4.40	73.00	6,036.4	1.2	345.7	28.1	0.16	-0.05	1.96
6,242.0	4.30	75.50	6,224.8	5.1	359.5	33.1	0.11	-0.05	1.32
6,431.0	3.40	59.50	6,413.4	9.8	371.2	38.6	0.74	-0.48	-8.47
6,621.0	2.80	68.10	6,603.1	14.3	380.3	43.9	0.40	-0.32	4.53
6,809.0	4.40	64.20	6,790.8	19.2	391.1	49.6	0.86	0.85	-2.07
6,999.0	4.10	79.40	6,980.3	23.6	404.3	55.0	0.61	-0.16	8.00
7,188.0	4.30	67.00	7,168.7	27.6	417.5	60.0	0.49	0.11	-6.56
7,377.0	3.80	54.70	7,357.3	34.0	429.1	67.3	0.53	-0.26	-6.51
7,566.0	4.50	51.50	7,545.8	42.3	440.0	76.4	0.39	0.37	-1.69
7,755.0	4.00	60.60	7,734.3	50.1	451.6	85.1	0.44	-0.26	4.81
7,944.0	4.40	83.40	7,922.8	54.2	464.5	90.1	0.90	0.21	12.06
8,134.0	4.20	85.90	8,112.2	55.5	478.7	92.6	0.14	-0.11	1.32
8,323.0	3.10	86.30	8,300.8	56.3	490.7	94.3	0.58	-0.58	0.21
8,513.0	4.20	95.00	8,490.5	56.1	502.8	95.0	0.65	0.58	4.58
8,702.0	3.20	102.50	8,679.1	54.3	514.8	94.2	0.59	-0.53	3.97
8,824.5	2.42	107.44	8,801.4	52.8	520.6	93.1	0.67	-0.64	4.04
B.B. Creedence 21 16 W0ED St Com 2H									
8,892.0	2.00	111.80	8,868.9	51.9	523.1	92.5	0.67	-0.62	6.45
8,970.0	1.00	119.00	8,946.8	51.1	524.9	91.8	1.30	-1.28	9.23
9,037.0	2.00	20.90	9,013.8	51.9	525.8	92.7	3.52	1.49	-146.42
9,068.0	6.50	8.60	9,044.7	54.1	526.3	94.9	14.73	14.52	-39.68
9,100.0	11.10	5.90	9,076.3	59.0	526.9	99.8	14.43	14.38	-8.44



Stryker Energy Directional Services

Survey Report



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Well:	Creedence 21 16 W0ED St Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,132.0	15.50	5.00	9,107.5	66.3	527.6	107.2	13.76	13.75	-2.81
9,163.0	18.90	3.60	9,137.1	75.5	528.3	116.3	11.05	10.97	-4.52
9,194.0	22.40	3.20	9,166.1	86.4	528.9	127.3	11.30	11.29	-1.29
9,225.0	26.20	2.90	9,194.3	99.1	529.6	140.0	12.26	12.26	-0.97
9,257.0	30.40	2.10	9,222.5	114.3	530.2	155.2	13.18	13.13	-2.50
9,288.0	34.20	2.10	9,248.7	130.8	530.8	171.7	12.26	12.26	0.00
9,320.0	38.00	1.20	9,274.6	149.7	531.4	190.6	11.99	11.88	-2.81
9,351.0	41.60	1.10	9,298.4	169.5	531.8	210.4	11.61	11.61	-0.32
9,382.0	45.10	2.60	9,320.9	190.8	532.5	231.6	11.77	11.29	4.84
9,414.0	49.10	3.90	9,342.7	214.2	533.8	255.0	12.85	12.50	4.06
9,446.0	52.70	4.80	9,362.9	238.9	535.7	279.9	11.46	11.25	2.81
9,477.0	56.60	4.90	9,380.8	264.1	537.8	305.2	12.58	12.58	0.32
9,509.0	61.10	4.90	9,397.4	291.4	540.2	332.5	14.06	14.06	0.00
9,540.0	64.30	5.00	9,411.6	318.8	542.5	360.1	10.33	10.32	0.32
9,571.0	67.80	4.80	9,424.2	347.1	545.0	388.4	11.31	11.29	-0.65
9,603.0	71.50	4.40	9,435.3	377.0	547.4	418.4	11.62	11.56	-1.25
9,635.0	74.60	3.60	9,444.6	407.5	549.5	449.0	9.98	9.69	-2.50
9,653.0	76.00	3.20	9,449.2	424.9	550.5	466.4	8.07	7.78	-2.22
9,713.0	79.40	2.50	9,462.0	483.4	553.4	525.0	5.78	5.67	-1.17
9,776.0	82.90	1.20	9,471.6	545.6	555.5	587.2	5.92	5.56	-2.06
9,871.0	88.00	0.50	9,479.2	640.3	556.9	681.7	5.42	5.37	-0.74
9,965.0	88.20	0.60	9,482.3	734.2	557.8	775.4	0.24	0.21	0.11
10,060.0	89.30	359.90	9,484.4	829.2	558.2	870.1	1.37	1.16	-0.74
10,154.0	88.70	359.80	9,486.0	923.2	557.9	963.8	0.65	-0.64	-0.11
10,249.0	90.20	359.10	9,486.9	1,018.2	557.0	1,058.4	1.74	1.58	-0.74
10,343.0	90.50	359.00	9,486.3	1,112.1	555.5	1,152.0	0.34	0.32	-0.11
10,437.0	91.60	359.20	9,484.6	1,206.1	554.0	1,245.6	1.19	1.17	0.21
10,532.0	89.60	2.20	9,483.6	1,301.1	555.1	1,340.3	3.80	-2.11	3.16
10,626.0	89.60	0.50	9,484.3	1,395.1	557.4	1,434.2	1.81	0.00	-1.81
10,720.0	89.40	0.90	9,485.1	1,489.0	558.5	1,528.0	0.48	-0.21	0.43
10,815.0	89.30	1.70	9,486.2	1,584.0	560.7	1,622.8	0.85	-0.11	0.84
10,910.0	88.50	2.30	9,488.0	1,678.9	564.0	1,717.7	1.05	-0.84	0.63
11,004.0	90.20	1.20	9,489.1	1,772.9	566.8	1,811.6	2.15	1.81	-1.17
11,099.0	90.40	1.70	9,488.6	1,867.9	569.2	1,906.5	0.57	0.21	0.53
11,193.0	89.50	1.90	9,488.7	1,961.8	572.2	2,000.4	0.98	-0.96	0.21
11,288.0	90.20	359.70	9,488.9	2,056.8	573.5	2,095.2	2.43	0.74	-2.32
11,383.0	90.80	0.10	9,488.1	2,151.8	573.4	2,189.9	0.76	0.63	0.42
11,477.0	91.20	0.50	9,486.4	2,245.8	573.9	2,283.6	0.60	0.43	0.43
11,571.0	89.40	359.70	9,485.9	2,339.8	574.0	2,377.3	2.10	-1.91	-0.85
11,666.0	90.40	359.50	9,486.1	2,434.8	573.4	2,472.0	1.07	1.05	-0.21
11,760.0	91.60	0.40	9,484.5	2,528.7	573.3	2,565.7	1.60	1.28	0.96
11,854.0	89.80	1.80	9,483.3	2,622.7	575.1	2,659.5	2.43	-1.91	1.49
11,948.0	90.60	2.40	9,483.0	2,716.6	578.5	2,753.4	1.06	0.85	0.64



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Creedence 21 16 W0ED St Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Site:	Section 21-28-24S-28E Kansas	MD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Well:	Creedence 21 16 W0ED St Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,041.0	88.80	2.10	9,483.5	2,809.6	582.2	2,846.3	1.96	-1.94	-0.32
12,136.0	92.50	1.50	9,482.4	2,904.5	585.2	2,941.2	3.95	3.89	-0.63
12,230.0	90.30	0.80	9,480.1	2,998.4	587.0	3,035.0	2.46	-2.34	-0.74
12,324.0	89.20	0.70	9,480.5	3,092.4	588.3	3,128.8	1.18	-1.17	-0.11
12,419.0	89.60	1.20	9,481.5	3,187.4	589.8	3,223.6	0.67	0.42	0.53
12,514.0	91.30	2.40	9,480.8	3,282.4	592.8	3,318.5	2.19	1.79	1.26
12,608.0	89.10	0.70	9,480.4	3,376.3	595.4	3,412.4	2.96	-2.34	-1.81
12,703.0	90.60	1.00	9,480.7	3,471.3	596.8	3,507.2	1.61	1.58	0.32
12,797.0	87.90	359.40	9,481.9	3,565.3	597.1	3,600.9	3.34	-2.87	-1.70
12,891.0	87.60	359.50	9,485.6	3,659.2	596.2	3,694.5	0.34	-0.32	0.11
12,986.0	88.40	358.40	9,488.9	3,754.1	594.5	3,789.0	1.43	0.84	-1.16
13,080.0	89.50	358.20	9,490.6	3,848.1	591.7	3,882.4	1.19	1.17	-0.21
13,174.0	90.80	358.50	9,490.4	3,942.0	589.0	3,975.9	1.42	1.38	0.32
13,270.0	90.40	358.30	9,489.4	4,038.0	586.3	4,071.4	0.47	-0.42	-0.21
13,364.0	91.80	358.50	9,487.6	4,131.9	583.7	4,164.8	1.50	1.49	0.21
13,459.0	91.70	358.80	9,484.7	4,226.9	581.4	4,259.3	0.33	-0.11	0.32
13,553.0	91.40	359.80	9,482.1	4,320.8	580.3	4,352.9	1.11	-0.32	1.06
13,648.0	91.10	0.60	9,480.1	4,415.8	580.6	4,447.6	0.90	-0.32	0.84
13,742.0	88.90	0.70	9,480.1	4,509.8	581.7	4,541.4	2.34	-2.34	0.11
13,837.0	90.10	2.00	9,480.9	4,604.8	583.9	4,636.2	1.86	1.26	1.37
13,931.0	89.20	2.30	9,481.5	4,698.7	587.4	4,730.1	1.01	-0.96	0.32
14,025.0	90.50	3.70	9,481.7	4,792.5	592.4	4,824.1	2.03	1.38	1.49
14,119.0	89.30	1.60	9,481.9	4,886.4	596.7	4,918.1	2.57	-1.28	-2.23
14,213.0	89.40	2.10	9,483.0	4,980.4	599.7	5,011.9	0.54	0.11	0.53
14,308.0	90.80	3.20	9,482.8	5,075.3	604.1	5,106.9	1.87	1.47	1.16
14,402.0	92.10	1.60	9,480.4	5,169.2	608.1	5,200.8	2.19	1.38	-1.70
14,496.0	90.10	359.70	9,478.6	5,263.1	609.1	5,294.6	2.93	-2.13	-2.02
14,591.0	90.50	359.80	9,478.1	5,358.1	608.7	5,389.2	0.43	0.42	0.11
14,691.0	88.80	0.40	9,478.7	5,458.1	608.9	5,488.9	1.80	-1.70	0.60
14,785.0	88.00	0.10	9,481.3	5,552.1	609.3	5,582.7	0.91	-0.85	-0.32
14,879.0	89.80	359.40	9,483.1	5,646.1	608.9	5,676.3	2.05	1.91	-0.74
14,974.0	90.20	359.70	9,483.1	5,741.1	608.2	5,771.0	0.53	0.42	0.32
15,069.0	91.20	0.60	9,482.0	5,836.0	608.4	5,865.7	1.42	1.05	0.95
15,164.0	88.00	357.60	9,482.6	5,931.0	606.9	5,960.3	4.62	-3.37	-3.16
15,258.0	87.70	357.40	9,486.2	6,024.9	602.8	6,053.5	0.38	-0.32	-0.21
15,353.0	88.90	357.40	9,489.0	6,119.7	598.5	6,147.7	1.26	1.26	0.00
15,447.0	89.90	359.10	9,490.0	6,213.7	595.6	6,241.2	2.10	1.06	1.81
15,542.0	90.60	359.50	9,489.6	6,308.7	594.5	6,335.8	0.85	0.74	0.42
15,637.0	91.10	358.50	9,488.2	6,403.6	592.8	6,430.3	1.18	0.53	-1.05
15,731.0	90.20	359.70	9,487.1	6,497.6	591.3	6,523.9	1.60	-0.96	1.28
15,826.0	90.10	359.60	9,486.8	6,592.6	590.8	6,618.6	0.15	-0.11	-0.11
15,921.0	90.00	0.20	9,486.8	6,687.6	590.6	6,713.3	0.64	-0.11	0.63
16,015.0	89.30	0.30	9,487.3	6,781.6	591.0	6,807.0	0.75	-0.74	0.11
16,110.0	89.50	0.60	9,488.3	6,876.6	591.8	6,901.8	0.38	0.21	0.32



Stryker Energy Directional Services
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Creedence 21 16 W0ED St Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Site:	Section 21-28-24S-28E Kansas	MD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Well:	Creedence 21 16 W0ED St Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,205.0	89.20	0.20	9,489.4	6,971.6	592.4	6,996.5	0.53	-0.32	-0.42
16,299.0	90.50	0.60	9,489.6	7,065.6	593.1	7,090.3	1.45	1.38	0.43
16,394.0	89.40	1.20	9,489.7	7,160.6	594.6	7,185.1	1.32	-1.16	0.63
16,488.0	91.40	0.80	9,489.1	7,254.5	596.2	7,278.9	2.17	2.13	-0.43
16,583.0	92.00	1.00	9,486.3	7,349.5	597.7	7,373.7	0.67	0.63	0.21
16,678.0	91.30	0.20	9,483.5	7,444.4	598.7	7,468.5	1.12	-0.74	-0.84
16,772.0	91.00	359.10	9,481.6	7,538.4	598.1	7,562.1	1.21	-0.32	-1.17
16,832.0	91.00	359.30	9,480.6	7,598.4	597.3	7,621.8	0.33	0.00	0.33
16,880.0	91.00	359.30	9,479.7	7,646.4	596.7	7,669.6	0.00	0.00	0.00
PBHL Creedence 21 16 W0ED St Com 2H									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
16,880.0	9,479.7	7,646.4	596.7	16880' Projected to bit

Checked By: _____	Approved By: _____	Date: _____
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Mewbourne Oil Company

**Eddy County, N.M. Nad (83)
Section 21-28-24S-28E Kansas
Creedence 21 16 W0ED St Com #2H**

Original Hole

Design: Original Hole

Survey Report - Geographic

18 July, 2019





Stryker Energy Directional Services

Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Creedence 21 16 W0ED St Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Site:	Section 21-28-24S-28E Kansas	MD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Well:	Creedence 21 16 W0ED St Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 21-28-24S-28E Kansas		
Site Position:		Northing:	437,785.10 usft
From:	Map	Easting:	613,495.10 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 12' 11.999 N
		Longitude:	104° 6' 0.151 W
		Grid Convergence:	0.12 °

Well	Creedence 21 16 W0ED St Com #2H		
Well Position	+N/-S	0.0 usft	Northing: 437,785.40 usft
	+E/-W	0.0 usft	Easting: 613,525.10 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	28.0 usft
		Latitude:	32° 12' 12.002 N
		Longitude:	104° 5' 59.802 W
		Ground Level:	3,037.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/20/19	7.02	59.94	47,700.00887253

Design	Original Hole		
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Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	4.46

Survey Program	Date	07/18/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
498.0	16,880.0	Stryker Surveys (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
394.0	2.00	282.50	393.9	3.1	-8.9	437,788.50	613,516.20	32° 12' 12.032 N	104° 5' 59.905 W
498.0	3.40	280.10	497.8	4.0	-13.7	437,789.43	613,511.40	32° 12' 12.042 N	104° 5' 59.961 W
681.0	1.70	314.60	680.6	6.9	-21.0	437,792.29	613,504.12	32° 12' 12.070 N	104° 6' 0.046 W
869.0	2.90	91.40	868.5	8.7	-18.2	437,794.13	613,506.89	32° 12' 12.088 N	104° 6' 0.013 W
1,058.0	3.30	88.40	1,057.3	8.8	-8.0	437,794.17	613,517.11	32° 12' 12.088 N	104° 5' 59.894 W
1,247.0	3.60	92.30	1,245.9	8.7	3.4	437,794.08	613,528.47	32° 12' 12.087 N	104° 5' 59.762 W
1,437.0	3.50	93.60	1,435.5	8.1	15.1	437,793.48	613,540.22	32° 12' 12.081 N	104° 5' 59.625 W
1,598.0	3.50	98.60	1,596.2	7.0	24.9	437,792.44	613,549.99	32° 12' 12.071 N	104° 5' 59.512 W
1,788.0	4.50	103.10	1,785.8	4.5	37.9	437,789.88	613,562.98	32° 12' 12.045 N	104° 5' 59.361 W
1,978.0	7.50	112.20	1,974.7	-1.9	56.6	437,783.50	613,581.73	32° 12' 11.982 N	104° 5' 59.143 W
2,167.0	6.80	131.20	2,162.3	-13.9	76.5	437,771.47	613,601.57	32° 12' 11.862 N	104° 5' 58.912 W
2,357.0	4.90	161.90	2,351.3	-29.1	87.5	437,756.34	613,612.56	32° 12' 11.712 N	104° 5' 58.785 W



Stryker Energy Directional Services

Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Creedence 21 16 W0ED St Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Site:	Section 21-28-24S-28E Kansas	MD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Well:	Creedence 21 16 W0ED St Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
2,468.0	4.50	183.60	2,462.0	-37.9	88.7	437,747.49	613,613.76	32° 12' 11.624 N	104° 5' 58.771 W
2,519.0	4.60	190.60	2,512.8	-41.9	88.1	437,743.48	613,613.25	32° 12' 11.585 N	104° 5' 58.777 W
2,643.0	2.20	115.60	2,636.6	-47.8	89.4	437,737.56	613,614.49	32° 12' 11.526 N	104° 5' 58.763 W
2,831.0	5.40	71.20	2,824.2	-46.5	101.0	437,738.86	613,626.12	32° 12' 11.539 N	104° 5' 58.627 W
3,020.0	5.40	78.40	3,012.4	-41.9	118.1	437,743.51	613,643.25	32° 12' 11.584 N	104° 5' 58.428 W
3,210.0	5.40	79.70	3,201.5	-38.5	135.7	437,746.91	613,660.80	32° 12' 11.618 N	104° 5' 58.223 W
3,399.0	4.50	78.30	3,389.8	-35.4	151.7	437,750.00	613,676.81	32° 12' 11.648 N	104° 5' 58.037 W
3,590.0	4.40	80.90	3,580.3	-32.7	166.3	437,752.68	613,691.39	32° 12' 11.674 N	104° 5' 57.867 W
3,779.0	4.70	81.00	3,768.7	-30.4	181.1	437,755.04	613,706.19	32° 12' 11.697 N	104° 5' 57.695 W
3,968.0	4.10	84.80	3,957.1	-28.5	195.5	437,756.86	613,720.57	32° 12' 11.715 N	104° 5' 57.527 W
4,158.0	3.90	81.90	4,146.6	-27.0	208.6	437,758.39	613,733.73	32° 12' 11.730 N	104° 5' 57.374 W
4,347.0	4.20	82.70	4,335.2	-25.2	221.9	437,760.17	613,746.96	32° 12' 11.747 N	104° 5' 57.220 W
4,538.0	4.50	85.90	4,525.6	-23.8	236.3	437,761.60	613,761.37	32° 12' 11.761 N	104° 5' 57.052 W
4,728.0	3.90	91.70	4,715.1	-23.5	250.2	437,761.94	613,775.26	32° 12' 11.764 N	104° 5' 56.891 W
4,917.0	4.70	68.90	4,903.6	-20.9	263.8	437,764.53	613,788.91	32° 12' 11.789 N	104° 5' 56.732 W
5,107.0	4.60	74.70	5,093.0	-16.1	278.4	437,769.35	613,803.52	32° 12' 11.837 N	104° 5' 56.561 W
5,296.0	4.30	77.60	5,281.4	-12.5	292.7	437,772.87	613,817.75	32° 12' 11.871 N	104° 5' 56.396 W
5,485.0	4.00	77.70	5,469.9	-9.6	306.0	437,775.79	613,831.12	32° 12' 11.900 N	104° 5' 56.240 W
5,675.0	3.80	80.50	5,659.5	-7.2	318.7	437,778.25	613,843.80	32° 12' 11.924 N	104° 5' 56.092 W
5,864.0	4.50	69.30	5,848.0	-3.5	331.8	437,781.90	613,856.91	32° 12' 11.960 N	104° 5' 55.940 W
6,053.0	4.40	73.00	6,036.4	1.2	345.7	437,786.64	613,870.78	32° 12' 12.006 N	104° 5' 55.778 W
6,242.0	4.30	75.50	6,224.8	5.1	359.5	437,790.53	613,884.58	32° 12' 12.045 N	104° 5' 55.618 W
6,431.0	3.40	59.50	6,413.4	9.8	371.2	437,795.15	613,896.26	32° 12' 12.090 N	104° 5' 55.481 W
6,621.0	2.80	68.10	6,603.1	14.3	380.3	437,799.74	613,905.43	32° 12' 12.135 N	104° 5' 55.375 W
6,809.0	4.40	64.20	6,790.8	19.2	391.1	437,804.60	613,916.18	32° 12' 12.183 N	104° 5' 55.249 W
6,999.0	4.10	79.40	6,980.3	23.6	404.3	437,809.02	613,929.42	32° 12' 12.227 N	104° 5' 55.095 W
7,188.0	4.30	67.00	7,168.7	27.6	417.5	437,813.03	613,942.58	32° 12' 12.266 N	104° 5' 54.942 W
7,377.0	3.80	54.70	7,357.3	34.0	429.1	437,819.42	613,954.22	32° 12' 12.329 N	104° 5' 54.806 W
7,566.0	4.50	51.50	7,545.8	42.3	440.0	437,827.65	613,965.13	32° 12' 12.410 N	104° 5' 54.679 W
7,755.0	4.00	60.60	7,734.3	50.1	451.6	437,835.50	613,976.68	32° 12' 12.488 N	104° 5' 54.545 W
7,944.0	4.40	83.40	7,922.8	54.2	464.5	437,839.57	613,989.62	32° 12' 12.528 N	104° 5' 54.394 W
8,134.0	4.20	85.90	8,112.2	55.5	478.7	437,840.91	614,003.80	32° 12' 12.541 N	104° 5' 54.229 W
8,323.0	3.10	86.30	8,300.8	56.3	490.7	437,841.73	614,015.80	32° 12' 12.548 N	104° 5' 54.089 W
8,513.0	4.20	95.00	8,490.5	56.1	502.8	437,841.46	614,027.86	32° 12' 12.545 N	104° 5' 53.949 W
8,702.0	3.20	102.50	8,679.1	54.3	514.8	437,839.71	614,039.91	32° 12' 12.528 N	104° 5' 53.808 W
8,824.5	2.42	107.44	8,801.4	52.8	520.6	437,838.20	614,045.71	32° 12' 12.513 N	104° 5' 53.741 W
B.B. Creedence 21 16 W0ED St Com 2H									
8,892.0	2.00	111.80	8,868.9	51.9	523.1	437,837.33	614,048.16	32° 12' 12.504 N	104° 5' 53.712 W
8,970.0	1.00	119.00	8,946.8	51.1	524.9	437,836.50	614,050.02	32° 12' 12.496 N	104° 5' 53.691 W
9,037.0	2.00	20.90	9,013.8	51.9	525.8	437,837.31	614,050.95	32° 12' 12.504 N	104° 5' 53.680 W
9,068.0	6.50	8.60	9,044.7	54.1	526.3	437,839.55	614,051.41	32° 12' 12.526 N	104° 5' 53.675 W
9,100.0	11.10	5.90	9,076.3	59.0	526.9	437,844.41	614,052.00	32° 12' 12.574 N	104° 5' 53.668 W
9,132.0	15.50	5.00	9,107.5	66.3	527.6	437,851.73	614,052.68	32° 12' 12.647 N	104° 5' 53.659 W
9,163.0	18.90	3.60	9,137.1	75.5	528.3	437,860.87	614,053.36	32° 12' 12.737 N	104° 5' 53.651 W
9,194.0	22.40	3.20	9,166.1	86.4	528.9	437,871.78	614,054.01	32° 12' 12.845 N	104° 5' 53.644 W
9,225.0	26.20	2.90	9,194.3	99.1	529.6	437,884.52	614,054.68	32° 12' 12.971 N	104° 5' 53.635 W
9,257.0	30.40	2.10	9,222.5	114.3	530.2	437,899.67	614,055.34	32° 12' 13.121 N	104° 5' 53.627 W
9,288.0	34.20	2.10	9,248.7	130.8	530.8	437,916.22	614,055.94	32° 12' 13.285 N	104° 5' 53.620 W
9,320.0	38.00	1.20	9,274.6	149.7	531.4	437,935.07	614,056.48	32° 12' 13.471 N	104° 5' 53.613 W
9,351.0	41.60	1.10	9,298.4	169.5	531.8	437,954.90	614,056.88	32° 12' 13.667 N	104° 5' 53.608 W
9,382.0	45.10	2.60	9,320.9	190.8	532.5	437,976.17	614,057.57	32° 12' 13.878 N	104° 5' 53.599 W
9,414.0	49.10	3.90	9,342.7	214.2	533.8	437,999.57	614,058.91	32° 12' 14.109 N	104° 5' 53.583 W
9,446.0	52.70	4.80	9,362.9	238.9	535.7	438,024.32	614,060.80	32° 12' 14.354 N	104° 5' 53.561 W
9,477.0	56.60	4.90	9,380.8	264.1	537.8	438,049.51	614,062.94	32° 12' 14.604 N	104° 5' 53.535 W
9,509.0	61.10	4.90	9,397.4	291.4	540.2	438,076.79	614,065.28	32° 12' 14.873 N	104° 5' 53.507 W



Stryker Energy Directional Services

Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Creedence 21 16 W0ED St Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Site:	Section 21-28-24S-28E Kansas	MD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Well:	Creedence 21 16 W0ED St Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,540.0	64.30	5.00	9,411.6	318.8	542.5	438,104.23	614,067.65	32° 12' 15.145 N	104° 5' 53.479 W
9,571.0	67.80	4.80	9,424.2	347.1	545.0	438,132.45	614,070.07	32° 12' 15.424 N	104° 5' 53.450 W
9,603.0	71.50	4.40	9,435.3	377.0	547.4	438,162.36	614,072.48	32° 12' 15.720 N	104° 5' 53.421 W
9,635.0	74.60	3.60	9,444.6	407.5	549.5	438,192.89	614,074.61	32° 12' 16.022 N	104° 5' 53.396 W
9,653.0	76.00	3.20	9,449.2	424.9	550.5	438,210.27	614,075.64	32° 12' 16.194 N	104° 5' 53.383 W
9,713.0	79.40	2.50	9,462.0	483.4	553.4	438,268.81	614,078.55	32° 12' 16.773 N	104° 5' 53.348 W
9,776.0	82.90	1.20	9,471.6	545.6	555.5	438,331.01	614,080.56	32° 12' 17.389 N	104° 5' 53.323 W
9,871.0	88.00	0.50	9,479.2	640.3	556.9	438,425.67	614,081.96	32° 12' 18.326 N	104° 5' 53.304 W
9,965.0	88.20	0.60	9,482.3	734.2	557.8	438,519.62	614,082.86	32° 12' 19.255 N	104° 5' 53.291 W
10,060.0	89.30	359.90	9,484.4	829.2	558.2	438,614.59	614,083.28	32° 12' 20.195 N	104° 5' 53.284 W
10,154.0	88.70	359.80	9,486.0	923.2	557.9	438,708.58	614,083.03	32° 12' 21.125 N	104° 5' 53.284 W
10,249.0	90.20	359.10	9,486.9	1,018.2	557.0	438,803.56	614,082.12	32° 12' 22.065 N	104° 5' 53.293 W
10,343.0	90.50	359.00	9,486.3	1,112.1	555.5	438,897.55	614,080.56	32° 12' 22.995 N	104° 5' 53.308 W
10,437.0	91.60	359.20	9,484.6	1,206.1	554.0	438,991.52	614,079.08	32° 12' 23.925 N	104° 5' 53.323 W
10,532.0	89.60	2.20	9,483.6	1,301.1	555.1	439,086.49	614,080.25	32° 12' 24.865 N	104° 5' 53.307 W
10,626.0	89.60	0.50	9,484.3	1,395.1	557.4	439,180.46	614,082.46	32° 12' 25.795 N	104° 5' 53.279 W
10,720.0	89.40	0.90	9,485.1	1,489.0	558.5	439,274.45	614,083.61	32° 12' 26.725 N	104° 5' 53.263 W
10,815.0	89.30	1.70	9,486.2	1,584.0	560.7	439,369.42	614,085.76	32° 12' 27.665 N	104° 5' 53.236 W
10,910.0	88.50	2.30	9,488.0	1,678.9	564.0	439,464.34	614,089.08	32° 12' 28.604 N	104° 5' 53.195 W
11,004.0	90.20	1.20	9,489.1	1,772.9	566.8	439,558.29	614,091.95	32° 12' 29.534 N	104° 5' 53.159 W
11,099.0	90.40	1.70	9,488.6	1,867.9	569.2	439,653.25	614,094.35	32° 12' 30.474 N	104° 5' 53.129 W
11,193.0	89.50	1.90	9,488.7	1,961.8	572.2	439,747.21	614,097.30	32° 12' 31.403 N	104° 5' 53.092 W
11,288.0	90.20	359.70	9,488.9	2,056.8	573.5	439,842.19	614,098.63	32° 12' 32.343 N	104° 5' 53.074 W
11,383.0	90.80	0.10	9,488.1	2,151.8	573.4	439,937.19	614,098.47	32° 12' 33.283 N	104° 5' 53.073 W
11,477.0	91.20	0.50	9,486.4	2,245.8	573.9	440,031.17	614,098.96	32° 12' 34.213 N	104° 5' 53.065 W
11,571.0	89.40	359.70	9,485.9	2,339.8	574.0	440,125.16	614,099.12	32° 12' 35.143 N	104° 5' 53.061 W
11,666.0	90.40	359.50	9,486.1	2,434.8	573.4	440,220.16	614,098.46	32° 12' 36.084 N	104° 5' 53.066 W
11,760.0	91.60	0.40	9,484.5	2,528.7	573.3	440,314.14	614,098.38	32° 12' 37.014 N	104° 5' 53.065 W
11,854.0	89.80	1.80	9,483.3	2,622.7	575.1	440,408.11	614,100.18	32° 12' 37.944 N	104° 5' 53.041 W
11,948.0	90.60	2.40	9,483.0	2,716.6	578.5	440,502.05	614,103.63	32° 12' 38.873 N	104° 5' 52.999 W
12,041.0	88.80	2.10	9,483.5	2,809.6	582.2	440,594.97	614,107.28	32° 12' 39.793 N	104° 5' 52.954 W
12,136.0	92.50	1.50	9,482.4	2,904.5	585.2	440,689.90	614,110.26	32° 12' 40.732 N	104° 5' 52.917 W
12,230.0	90.30	0.80	9,480.1	2,998.4	587.0	440,783.85	614,112.15	32° 12' 41.662 N	104° 5' 52.893 W
12,324.0	89.20	0.70	9,480.5	3,092.4	588.3	440,877.84	614,113.38	32° 12' 42.592 N	104° 5' 52.876 W
12,419.0	89.60	1.20	9,481.5	3,187.4	589.8	440,972.82	614,114.95	32° 12' 43.532 N	104° 5' 52.855 W
12,514.0	91.30	2.40	9,480.8	3,282.4	592.8	441,067.76	614,117.93	32° 12' 44.471 N	104° 5' 52.818 W
12,608.0	89.10	0.70	9,480.4	3,376.3	595.4	441,161.72	614,120.48	32° 12' 45.401 N	104° 5' 52.786 W
12,703.0	90.60	1.00	9,480.7	3,471.3	596.8	441,256.71	614,121.89	32° 12' 46.341 N	104° 5' 52.767 W
12,797.0	87.90	359.40	9,481.9	3,565.3	597.1	441,350.69	614,122.21	32° 12' 47.271 N	104° 5' 52.761 W
12,891.0	87.60	359.50	9,485.6	3,659.2	596.2	441,444.61	614,121.31	32° 12' 48.200 N	104° 5' 52.769 W
12,986.0	88.40	358.40	9,488.9	3,754.1	594.5	441,539.53	614,119.57	32° 12' 49.140 N	104° 5' 52.787 W
13,080.0	89.50	358.20	9,490.6	3,848.1	591.7	441,633.47	614,116.78	32° 12' 50.069 N	104° 5' 52.817 W
13,174.0	90.80	358.50	9,490.4	3,942.0	589.0	441,727.43	614,114.08	32° 12' 50.999 N	104° 5' 52.846 W
13,270.0	90.40	358.30	9,489.4	4,038.0	586.3	441,823.39	614,111.40	32° 12' 51.949 N	104° 5' 52.875 W
13,364.0	91.80	358.50	9,487.6	4,131.9	583.7	441,917.33	614,108.77	32° 12' 52.879 N	104° 5' 52.903 W
13,459.0	91.70	358.80	9,484.7	4,226.9	581.4	442,012.26	614,106.54	32° 12' 53.818 N	104° 5' 52.927 W
13,553.0	91.40	359.80	9,482.1	4,320.8	580.3	442,106.22	614,105.39	32° 12' 54.748 N	104° 5' 52.938 W
13,648.0	91.10	0.60	9,480.1	4,415.8	580.6	442,201.20	614,105.72	32° 12' 55.688 N	104° 5' 52.931 W
13,742.0	88.90	0.70	9,480.1	4,509.8	581.7	442,295.18	614,106.79	32° 12' 56.618 N	104° 5' 52.917 W
13,837.0	90.10	2.00	9,480.9	4,604.8	583.9	442,390.15	614,109.02	32° 12' 57.558 N	104° 5' 52.888 W
13,931.0	89.20	2.30	9,481.5	4,698.7	587.4	442,484.08	614,112.55	32° 12' 58.487 N	104° 5' 52.845 W
14,025.0	90.50	3.70	9,481.7	4,792.5	592.4	442,577.95	614,117.47	32° 12' 59.416 N	104° 5' 52.785 W
14,119.0	89.30	1.60	9,481.9	4,886.4	596.7	442,671.84	614,121.82	32° 13' 0.345 N	104° 5' 52.732 W
14,213.0	89.40	2.10	9,483.0	4,980.4	599.7	442,765.79	614,124.85	32° 13' 1.274 N	104° 5' 52.694 W
14,308.0	90.80	3.20	9,482.8	5,075.3	604.1	442,860.68	614,129.24	32° 13' 2.213 N	104° 5' 52.641 W



Stryker Energy Directional Services

Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Creedence 21 16 W0ED St Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Site:	Section 21-28-24S-28E Kansas	MD Reference:	3037 + 28 @ 3065.0usft (Patterson 231)
Well:	Creedence 21 16 W0ED St Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,402.0	92.10	1.60	9,480.4	5,169.2	608.1	442,954.56	614,133.18	32° 13' 3.142 N	104° 5' 52.592 W
14,496.0	90.10	359.70	9,478.6	5,263.1	609.1	443,048.53	614,134.24	32° 13' 4.072 N	104° 5' 52.578 W
14,591.0	90.50	359.80	9,478.1	5,358.1	608.7	443,143.53	614,133.83	32° 13' 5.012 N	104° 5' 52.580 W
14,691.0	88.80	0.40	9,478.7	5,458.1	608.9	443,243.52	614,134.00	32° 13' 6.002 N	104° 5' 52.576 W
14,785.0	88.00	0.10	9,481.3	5,552.1	609.3	443,337.48	614,134.41	32° 13' 6.932 N	104° 5' 52.568 W
14,879.0	89.80	359.40	9,483.1	5,646.1	608.9	443,431.46	614,134.00	32° 13' 7.862 N	104° 5' 52.571 W
14,974.0	90.20	359.70	9,483.1	5,741.1	608.2	443,526.46	614,133.26	32° 13' 8.802 N	104° 5' 52.577 W
15,069.0	91.20	0.60	9,482.0	5,836.0	608.4	443,621.45	614,133.51	32° 13' 9.742 N	104° 5' 52.572 W
15,164.0	88.00	357.60	9,482.6	5,931.0	606.9	443,716.41	614,132.01	32° 13' 10.682 N	104° 5' 52.587 W
15,258.0	87.70	357.40	9,486.2	6,024.9	602.8	443,810.25	614,127.92	32° 13' 11.610 N	104° 5' 52.632 W
15,353.0	88.90	357.40	9,489.0	6,119.7	598.5	443,905.11	614,123.61	32° 13' 12.549 N	104° 5' 52.680 W
15,447.0	89.90	359.10	9,490.0	6,213.7	595.6	443,999.06	614,120.74	32° 13' 13.479 N	104° 5' 52.711 W
15,542.0	90.60	359.50	9,489.6	6,308.7	594.5	444,094.05	614,119.58	32° 13' 14.419 N	104° 5' 52.722 W
15,637.0	91.10	358.50	9,488.2	6,403.6	592.8	444,189.02	614,117.92	32° 13' 15.359 N	104° 5' 52.739 W
15,731.0	90.20	359.70	9,487.1	6,497.6	591.3	444,283.00	614,116.44	32° 13' 16.289 N	104° 5' 52.753 W
15,826.0	90.10	359.60	9,486.8	6,592.6	590.8	444,378.00	614,115.86	32° 13' 17.229 N	104° 5' 52.758 W
15,921.0	90.00	0.20	9,486.8	6,687.6	590.6	444,473.00	614,115.70	32° 13' 18.169 N	104° 5' 52.757 W
16,015.0	89.30	0.30	9,487.3	6,781.6	591.0	444,567.00	614,116.11	32° 13' 19.099 N	104° 5' 52.750 W
16,110.0	89.50	0.60	9,488.3	6,876.6	591.8	444,661.99	614,116.85	32° 13' 20.039 N	104° 5' 52.739 W
16,205.0	89.20	0.20	9,489.4	6,971.6	592.4	444,756.98	614,117.52	32° 13' 20.979 N	104° 5' 52.729 W
16,299.0	90.50	0.60	9,489.6	7,065.6	593.1	444,850.98	614,118.17	32° 13' 21.910 N	104° 5' 52.719 W
16,394.0	89.40	1.20	9,489.7	7,160.6	594.6	444,945.96	614,119.67	32° 13' 22.850 N	104° 5' 52.699 W
16,488.0	91.40	0.80	9,489.1	7,254.5	596.2	445,039.94	614,121.31	32° 13' 23.780 N	104° 5' 52.678 W
16,583.0	92.00	1.00	9,486.3	7,349.5	597.7	445,134.89	614,122.80	32° 13' 24.719 N	104° 5' 52.658 W
16,678.0	91.30	0.20	9,483.5	7,444.4	598.7	445,229.84	614,123.79	32° 13' 25.659 N	104° 5' 52.644 W
16,772.0	91.00	359.10	9,481.6	7,538.4	598.1	445,323.82	614,123.22	32° 13' 26.589 N	104° 5' 52.648 W
16,832.0	91.00	359.30	9,480.6	7,598.4	597.3	445,383.80	614,122.38	32° 13' 27.182 N	104° 5' 52.656 W
16,880.0	91.00	359.30	9,479.7	7,646.4	596.7	445,431.79	614,121.79	32° 13' 27.657 N	104° 5' 52.662 W

PBHL Creedence 21 16 W0ED St Com 2H

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
16,880.0	9,479.7	7,646.4	596.7	16880' Projected to bit

Checked By: _____	Approved By: _____	Date: _____
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COMPANY: Mewbourne Oil Company
WELL: Creedence 21 16 W0ED St Com #2H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 231

STRYKER
DIRECTIONAL
OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.89°

GEODETIC ZONE: New Mexico Eastern Zone 3037 + 28 @ 3065.0usft (Patterson 231) GROUND ELEVATION: 3037.0											
		+N/-S	+E/-W	Northing	Easting	Latitude		Longitude		Slot	
		0.0	0.0	437785.40	613525.10	32° 12' 12.002 N		104° 5' 59.802 W			
PLAN SECTIONS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	2550.0	0.00	0.00	2550.0	0.0	0.0	0.00	0.00	0.0		
3	2893.6	5.15	84.05	2893.2	1.6	15.4	1.50	84.05	2.8		
4	8480.9	5.15	84.05	8457.8	53.6	514.6	0.00	0.00	92.9		
5	8824.5	0.00	0.00	8801.0	55.2	530.0	1.50	180.00	95.7	B.B. Creedence 21 16 W0ED St Com 2H	
6	9021.1	0.00	0.00	8997.5	55.2	530.0	0.00	0.00	95.7		
7	9770.1	89.88	0.45	9475.0	531.6	533.7	12.00	0.45	571.0		
8	16893.1	89.88	0.45	9490.0	7654.5	589.3	0.00	0.00	7677.2	PBHL Creedence 21 16 W0ED St Com 2H	

SHL: 2635 FNL; 390' FWL
Section 21-24S-28E
PBHL: 330' FNL; 990' FWL
Section 16-24S-28E

